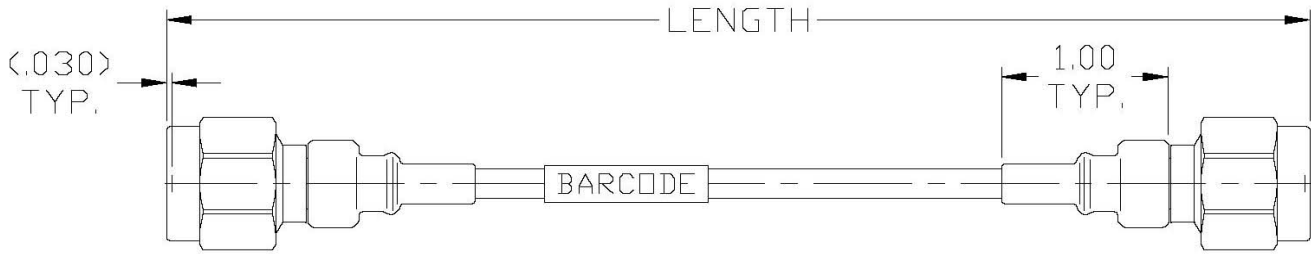


Cable Assembly Technical Data Sheet

N(P)STR, DY5, N(P)STR



ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	26.6 pf/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	76.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.33 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	111 ps/INCH
PULSE RF POWER:	3500 WATTS MAX.
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHz) ----->	1 2 4 6 12 18
MAX. CW WATTS ----->	641 445 307 246 167 132
PHASE STABILITY DEG. ----->	0.6 1.7 3.8 6.0 11.5 18.5
LOSS STABILITY dB ----->	0.01 0.01 0.02 0.03 0.06 0.09
CABLE FORMED AND STRAIGHTENED 90 DEGREES ON A 4.1" RADIUS	

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	EXTRUDED FEP	BLUE TINT
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
BOOTS:	MIL-DTL-23053/4 CLASS 3	BLACK
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-4894, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	AMS QQ-P-35, PASSIVATE
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS QQ-P-35, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

MECHANICAL SPECIFICATIONS		
CABLE MAX. DIAMETER:	0.210	INCHES
MINIMUM BEND RADIUS:	1.25	INCHES
CONNECTOR RETENTION:	60	POUNDS MIN.
TEMPERATURE RANGE:	-55 to +110	DEGREES C
MATING TORQUE:	10 TO 15	INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348	Fig. 304.1 SOLID OUTER

PART NUMBER	LENGTH INCHES	+ - LENGTH	WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						MAXIMUM INSERTION LOSS IN dB (IN GHz.)						NOM DELAY nS	LENGTH CM
				UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18		
7878-DY5-0 12	12.0	0.25	0.9	1.06	1.10	1.14	1.18	1.22	1.30	0.15	0.21	0.30	0.38	0.56	0.67	1.33	30.5
7878-DY5-0 15	15.0	0.25	1.1	1.06	1.10	1.14	1.18	1.22	1.30	0.17	0.24	0.34	0.43	0.64	0.77	1.66	38.1
7878-DY5-0 18	18.0	0.25	1.2	1.06	1.10	1.14	1.18	1.22	1.30	0.19	0.27	0.38	0.48	0.71	0.86	1.99	45.7
7878-DY5-0 21	21.0	0.25	1.4	1.06	1.10	1.14	1.18	1.22	1.30	0.21	0.30	0.43	0.53	0.79	0.96	2.33	53.3
7878-DY5-0 24	24.0	0.25	1.5	1.06	1.10	1.14	1.18	1.22	1.30	0.23	0.33	0.47	0.58	0.87	1.05	2.66	61.0
7878-DY5-0 27	27.0	0.27	1.7	1.06	1.10	1.14	1.18	1.22	1.30	0.25	0.35	0.51	0.63	0.94	1.15	2.99	68.6
7878-DY5-0 30	30.0	0.30	1.8	1.06	1.10	1.14	1.18	1.22	1.30	0.27	0.38	0.55	0.68	1.02	1.24	3.32	76.2
7878-DY5-0 33	33.0	0.33	2.0	1.06	1.10	1.14	1.18	1.22	1.30	0.28	0.41	0.59	0.73	1.10	1.34	3.65	83.8
7878-DY5-0 36	36.0	0.36	2.1	1.06	1.10	1.14	1.18	1.22	1.30	0.30	0.44	0.63	0.78	1.17	1.43	3.99	91.4
7878-DY5-0 39	39.0	0.39	2.3	1.06	1.10	1.14	1.18	1.22	1.30	0.32	0.47	0.67	0.83	1.25	1.53	4.32	99.1
7878-DY5-0 42	42.0	0.42	2.4	1.06	1.10	1.14	1.18	1.22	1.30	0.34	0.49	0.71	0.88	1.33	1.62	4.65	106.7
7878-DY5-0 45	45.0	0.45	2.6	1.06	1.10	1.14	1.18	1.22	1.30	0.36	0.52	0.75	0.94	1.40	1.72	4.98	114.3
7878-DY5-0 48	48.0	0.48	2.7	1.06	1.10	1.14	1.18	1.22	1.30	0.38	0.55	0.79	0.99	1.48	1.81	5.32	121.9
7878-DY5-0 54	54.0	0.54	3.0	1.06	1.10	1.14	1.18	1.22	1.30	0.42	0.61	0.87	1.09	1.63	2.00	5.98	137.2
7878-DY5-0 60	60.0	0.60	3.3	1.06	1.10	1.14	1.18	1.22	1.30	0.46	0.66	0.96	1.19	1.78	2.19	6.65	152.4
7878-DY5-0 66	66.0	0.66	3.6	1.06	1.10	1.14	1.18	1.22	1.30	0.50	0.72	1.04	1.29	1.94	2.38	7.31	167.6
7878-DY5-0 72	72.0	0.72	3.9	1.06	1.10	1.14	1.18	1.22	1.30	0.54	0.77	1.12	1.39	2.09	2.57	7.97	182.9
7878-DY5-0 80	80.0	0.80	4.3	1.06	1.10	1.14	1.18	1.22	1.30	0.59	0.85	1.23	1.53	2.29	2.82	8.86	203.2
7878-DY5-0 84	84.0	0.84	4.5	1.06	1.10	1.14	1.18	1.22	1.30	0.62	0.89	1.28	1.60	2.40	2.95	9.30	213.4
7878-DY5-0 96	96.0	0.96	5.1	1.06	1.10	1.14	1.18	1.22	1.30	0.69	1.00	1.44	1.80	2.70	3.33	10.63	243.8
7878-DY5-1 08	108.0	1.08	5.7	1.06	1.10	1.14	1.18	1.22	1.30	0.77	1.11	1.61	2.00	3.01	3.71	11.96	274.3
7878-DY5-1 20	120.0	1.20	6.3	1.06	1.10	1.14	1.18	1.22	1.30	0.85	1.22	1.77	2.21	3.31	4.09	13.29	304.8

MAXIMUM SPECIFICATIONS INCLUDE MEASURING SYSTEM UNCERTAINTIES.

NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.

PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.